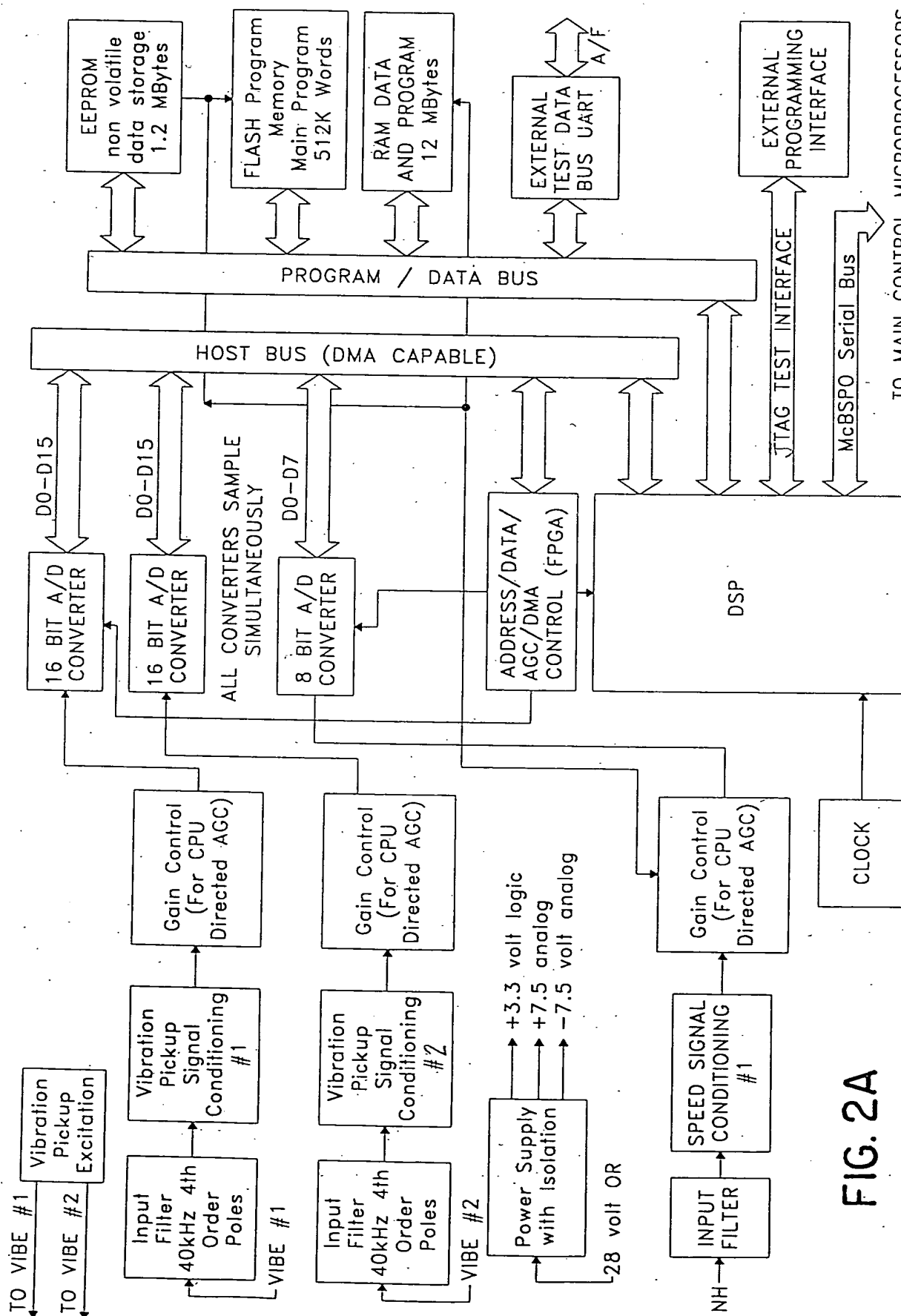


FIG. 1



TO MAIN CONTROL MICROPROCESSORS
(IN: NH, NL, NP, Q OUT: TIME
REMAINING) BUS IS OPTO ISOLATED

FIG. 2A

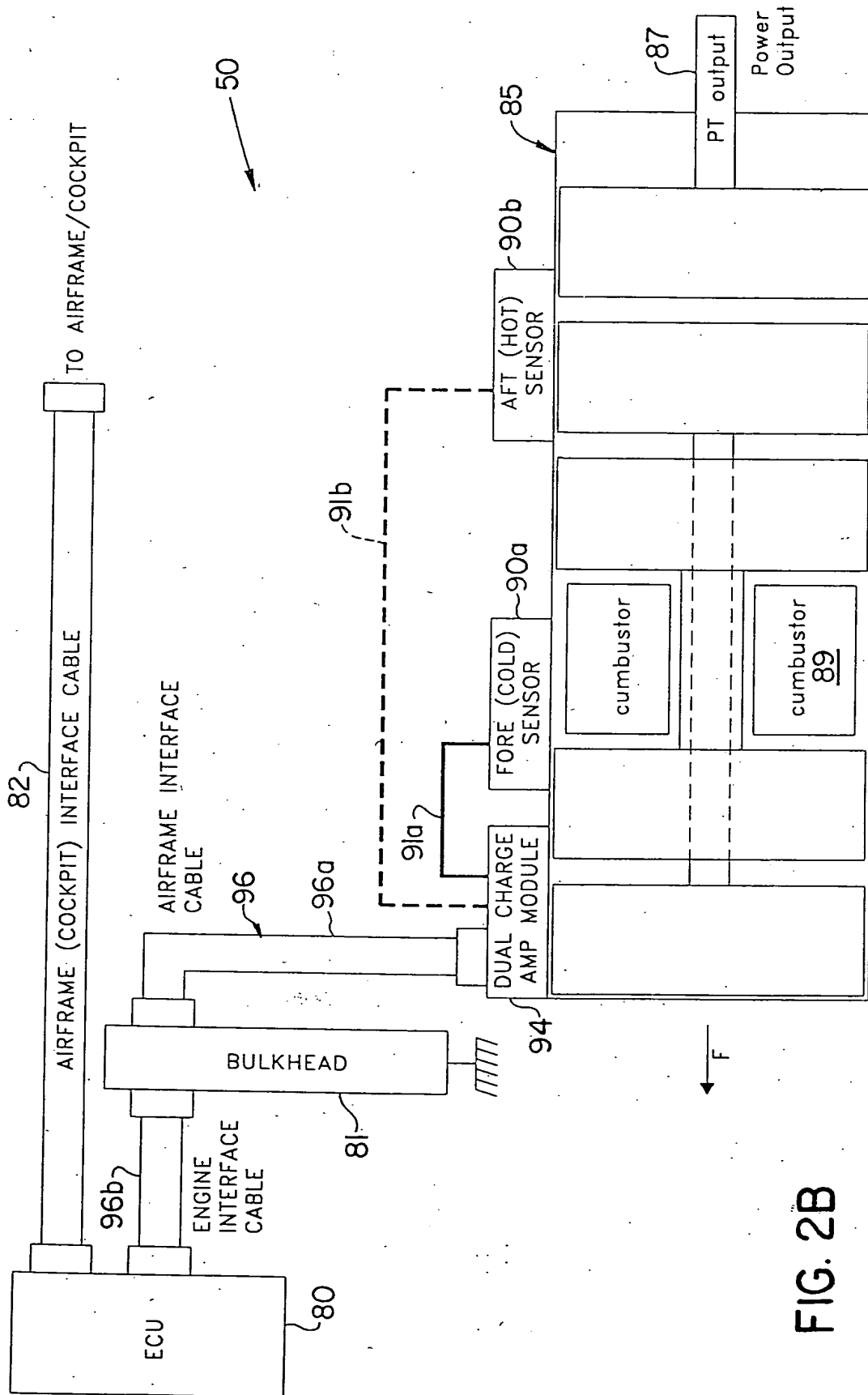


FIG. 2B

FIG. 3A

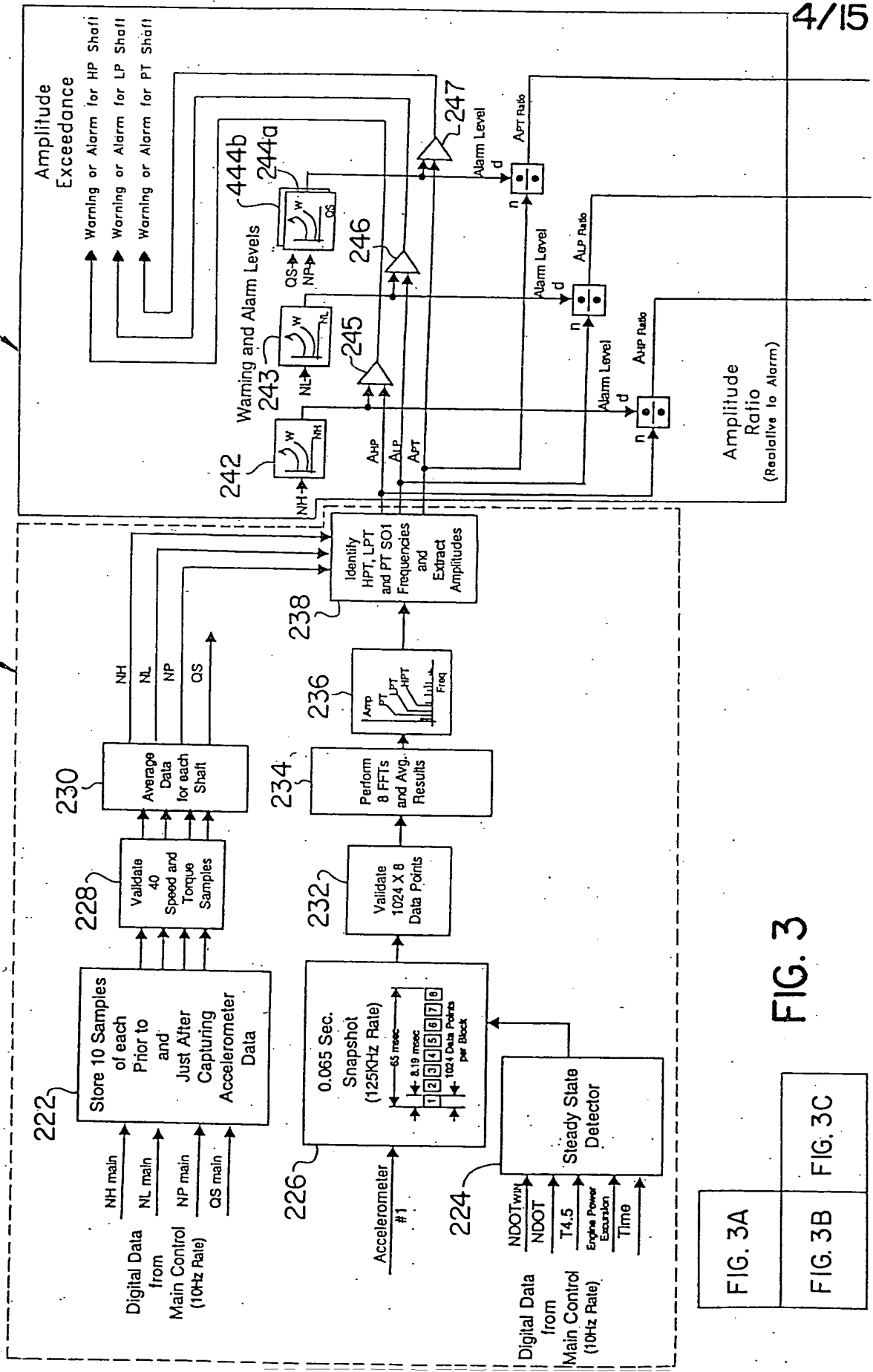


FIG. 3

FIG. 3A	FIG. 3C
FIG. 3B	

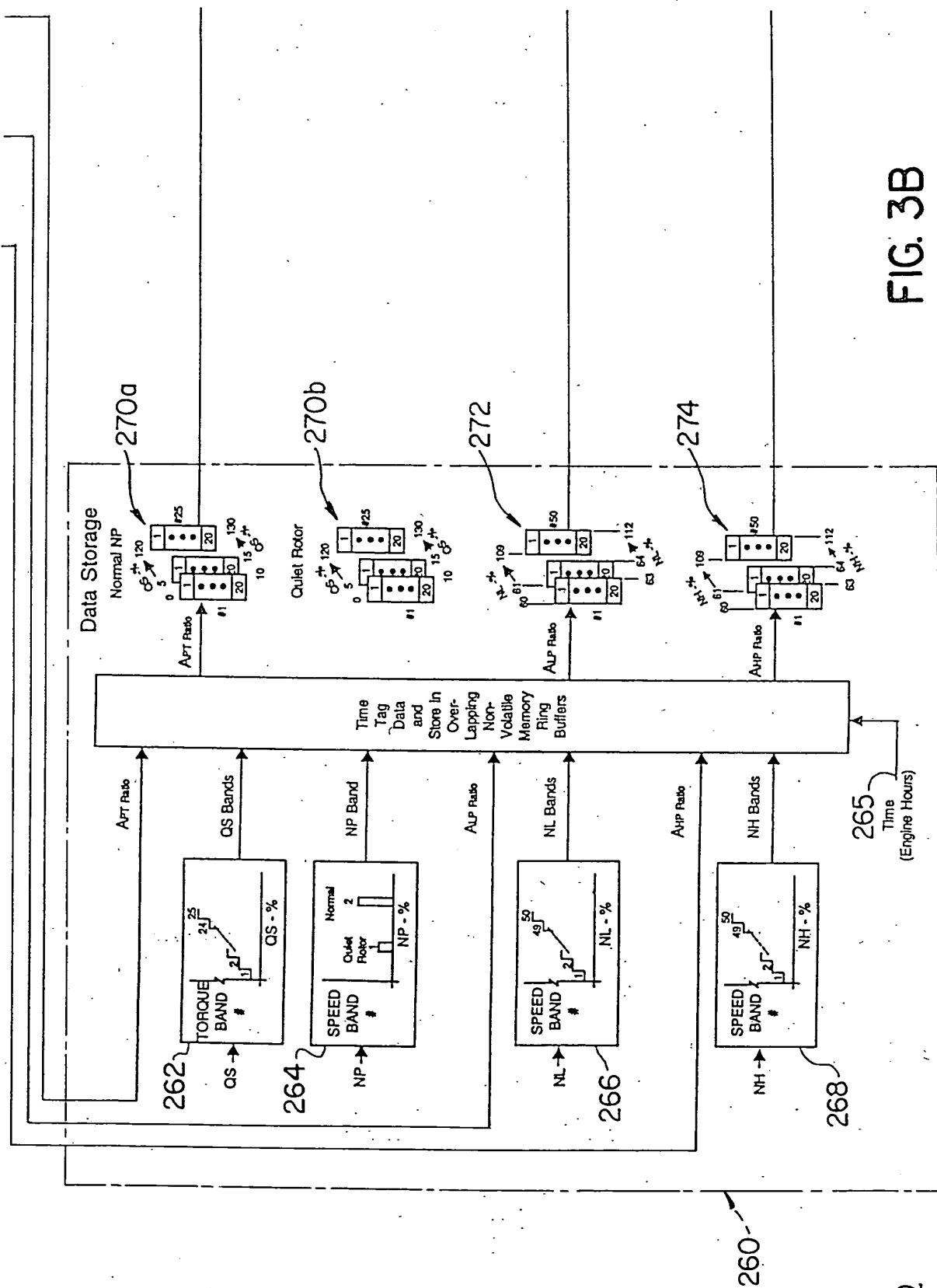
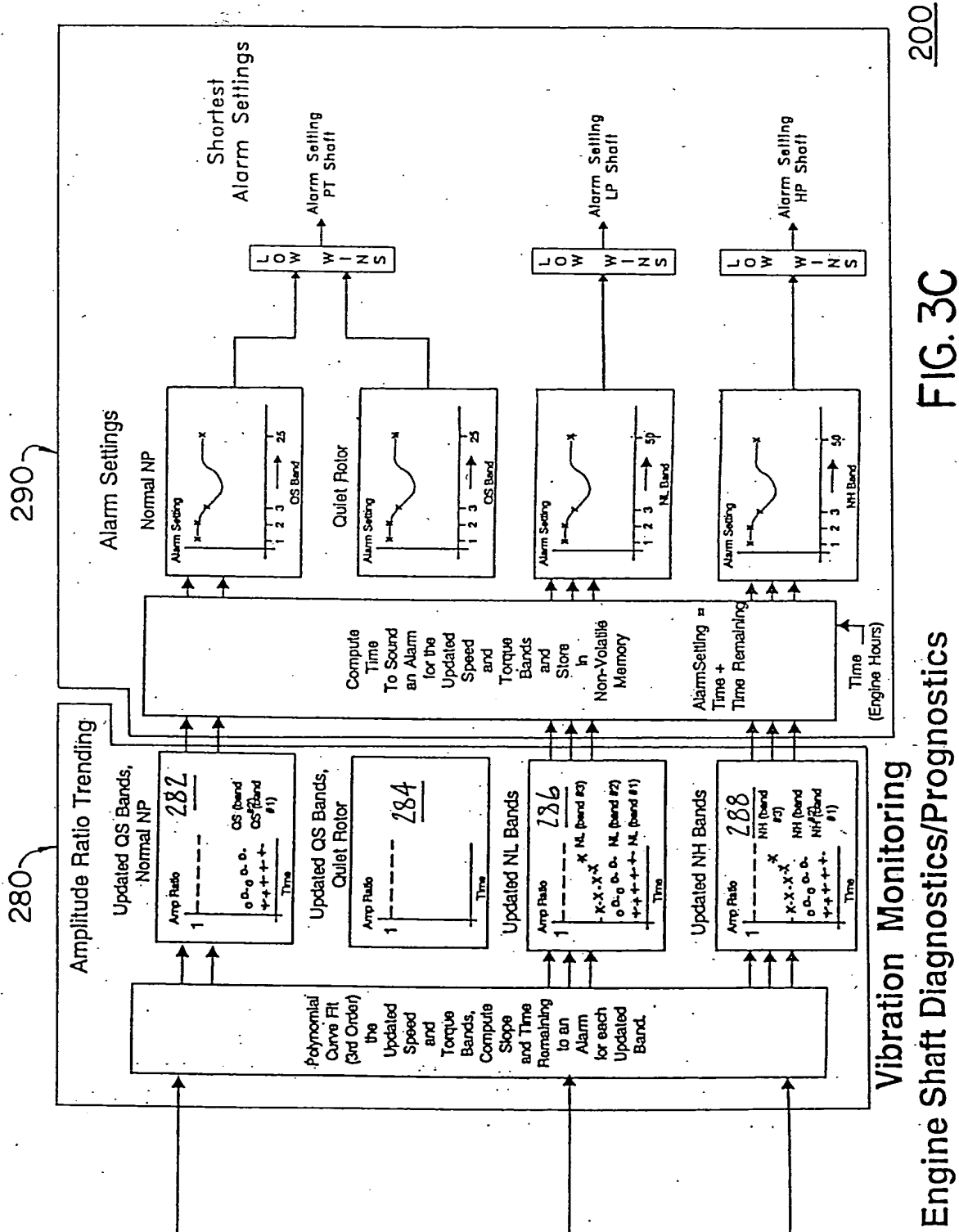
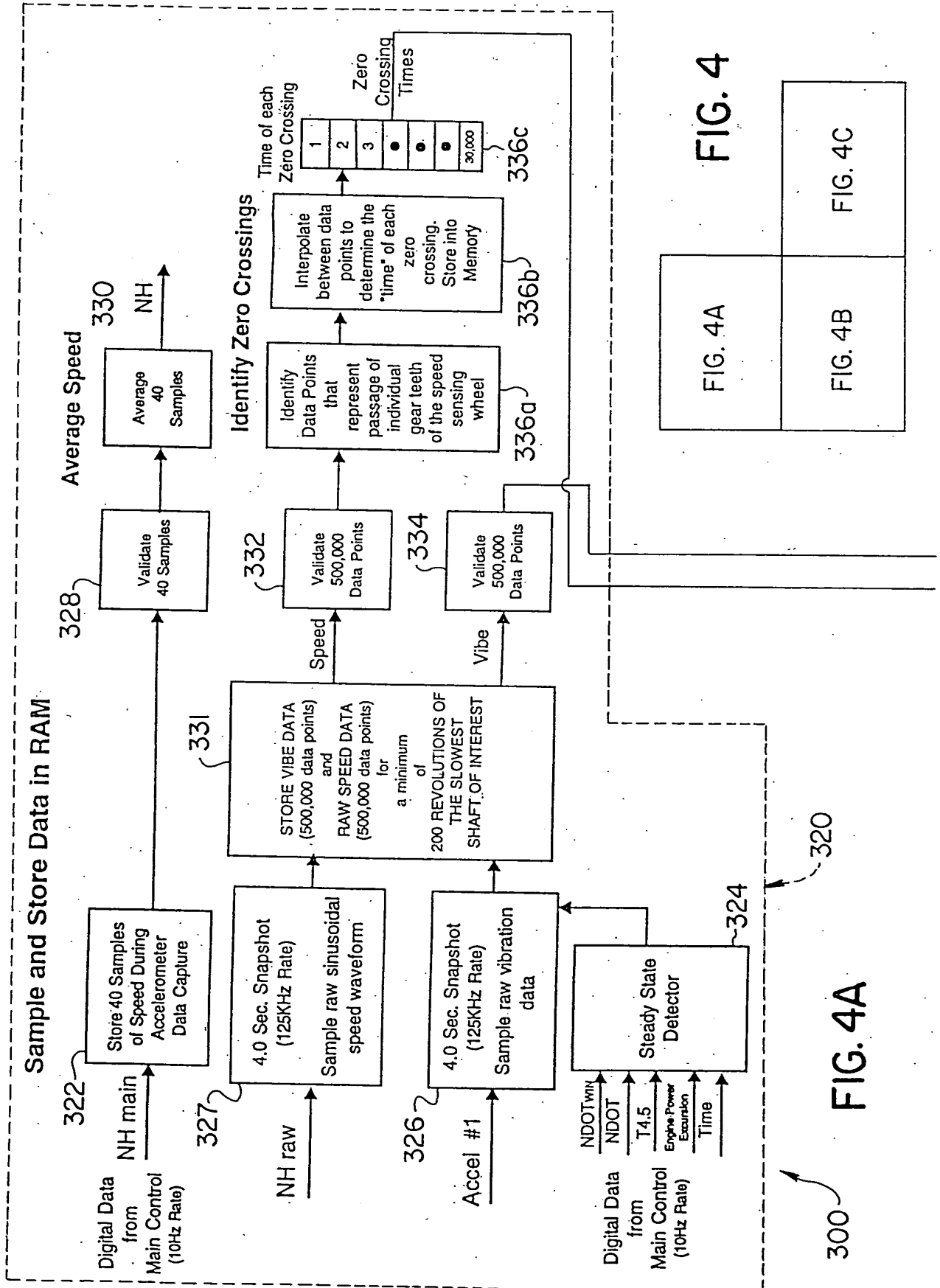


FIG. 3B





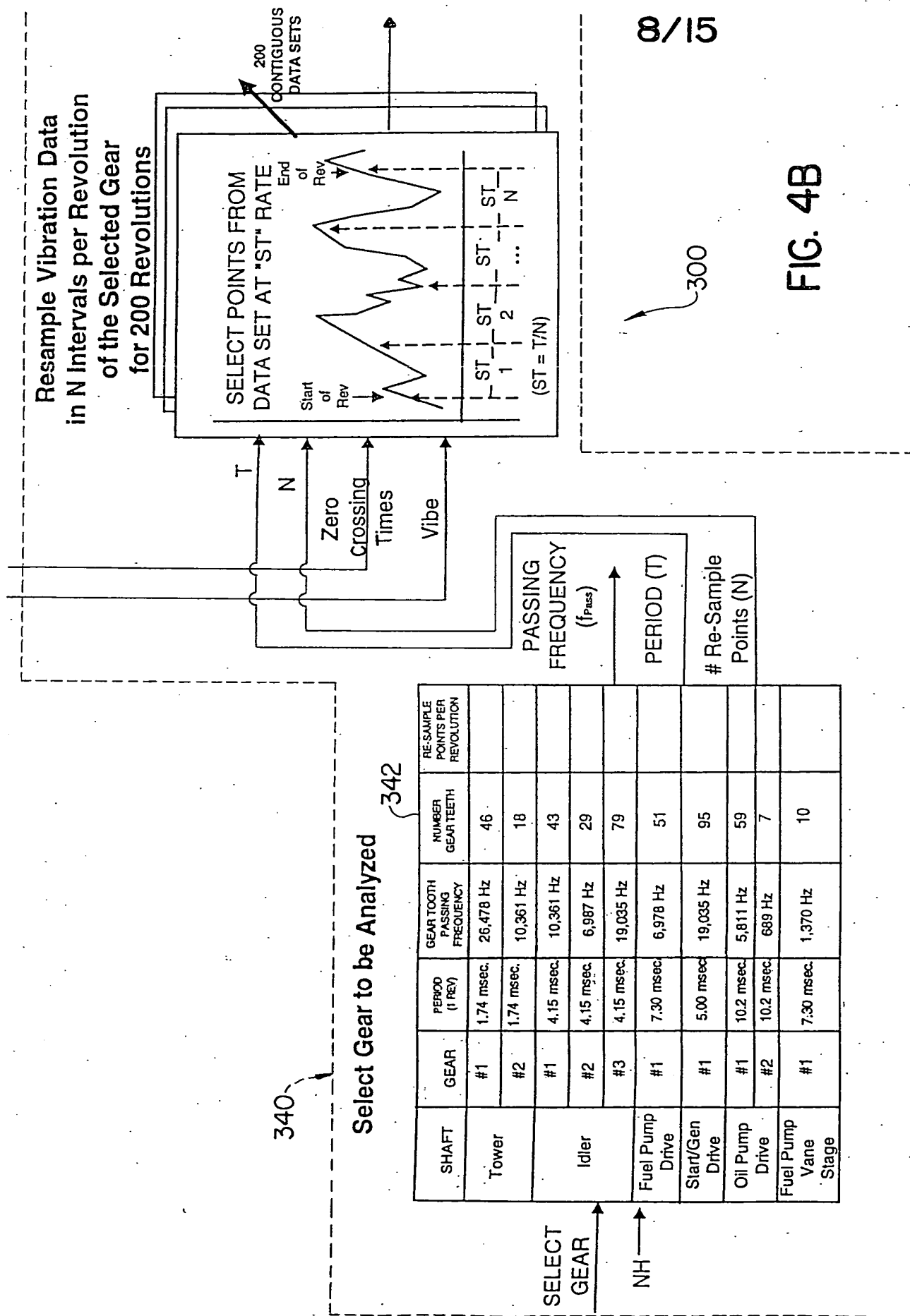


FIG. 4B

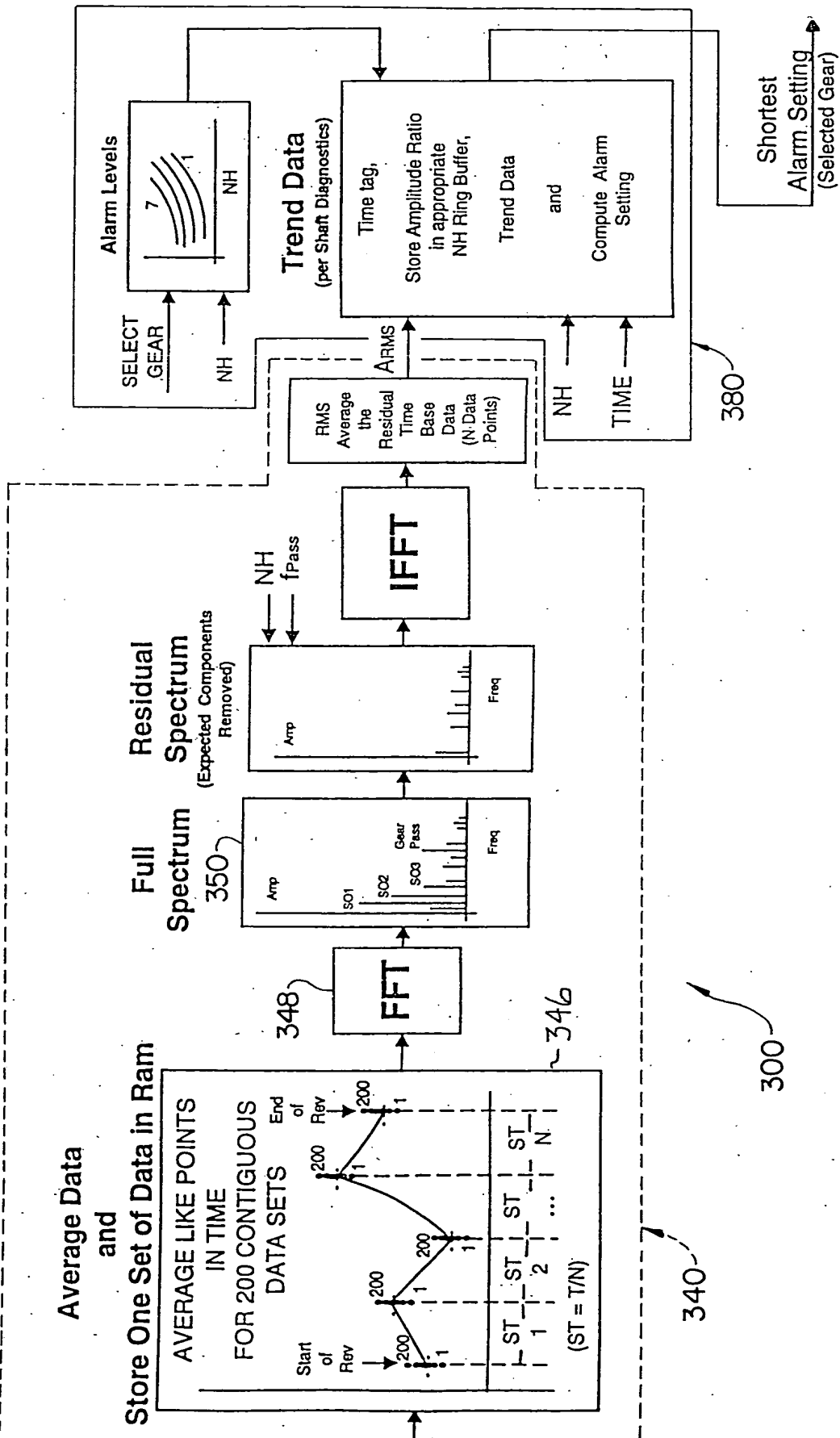


FIG. 4C

Vibration Monitoring Engine Gear Diagnostics / Prognostics

FIG. 5A

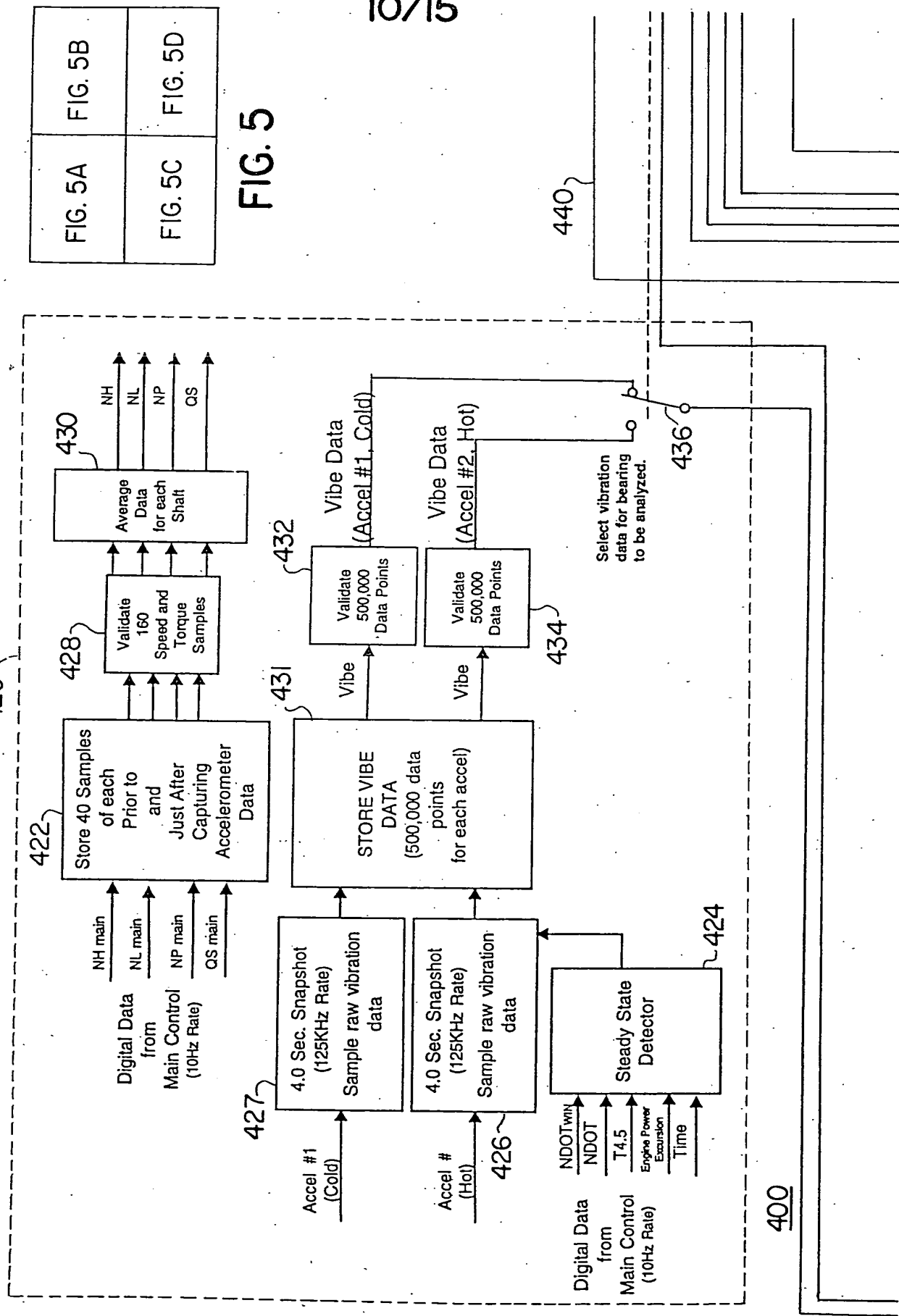


FIG. 5

Select Bearing to be Analyzed

SHAFT	BEARING	ACCEL	PASSING FREQUENCY REL TO INNER RACE f_i (Hz)	PASSING FREQUENCY REL TO OUTER RACE f_o (Hz)	CAGE FREQUENCY f_c (Hz)	BALL/ROLLER SPIN FREQUENCY f_s (Hz)	BANDPASS CENTER FREQUENCY f_{STRUCT} (Hz)
HP	#4	Hot	4,643	3,624	226	1,854	TBD
	#5	Hot	4,454	3,812	238	3,305	TBD
LP	#2.5	Cold	4,239	3,561	198	2,472	TBD
	#3	Cold	4,181	3,186	187	1,396	TBD
	#6	Hot	5,139	4,395	200	2,761	TBD
PT	#1	Cold	2,229	1,671	129	764	TBD
	#2	Cold	1,971	1,629	136	1,971	TBD
	#6.5	Hot	3,613	2,987	136	1,569	TBD
	#7	Hot	3,028	2,372	132	1,216	TBD
Accessory Gear Box Shafts	#29 (12 Bearings)	Cold	3,742	2,015	201	873	TBD
	#40		100	317	40	213	TBD

SELECT
BEARING →

NH →

NL →

NP →

f_i

f_o

f_c

f_s

f_{STRUCT}

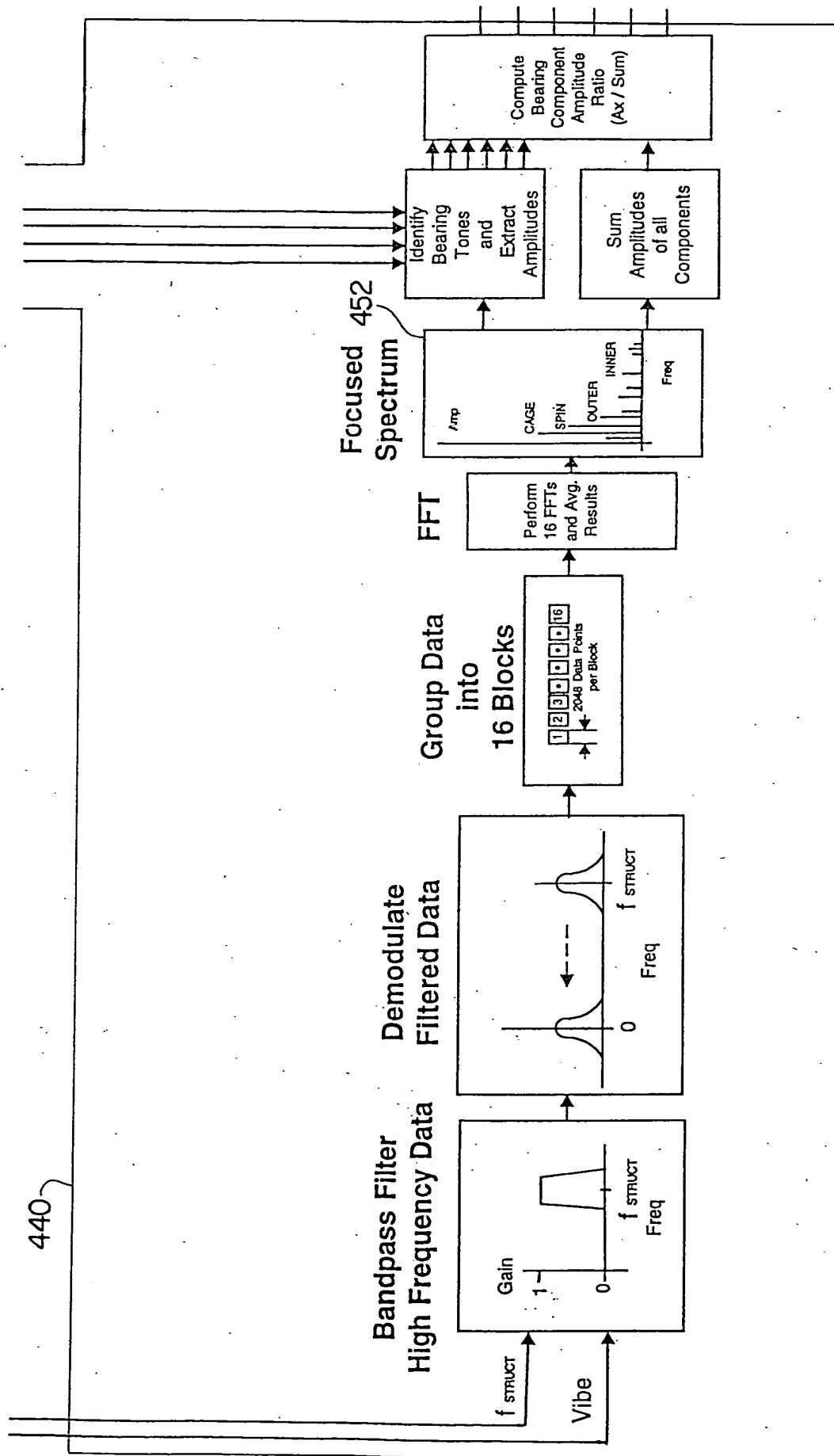
ACCEL

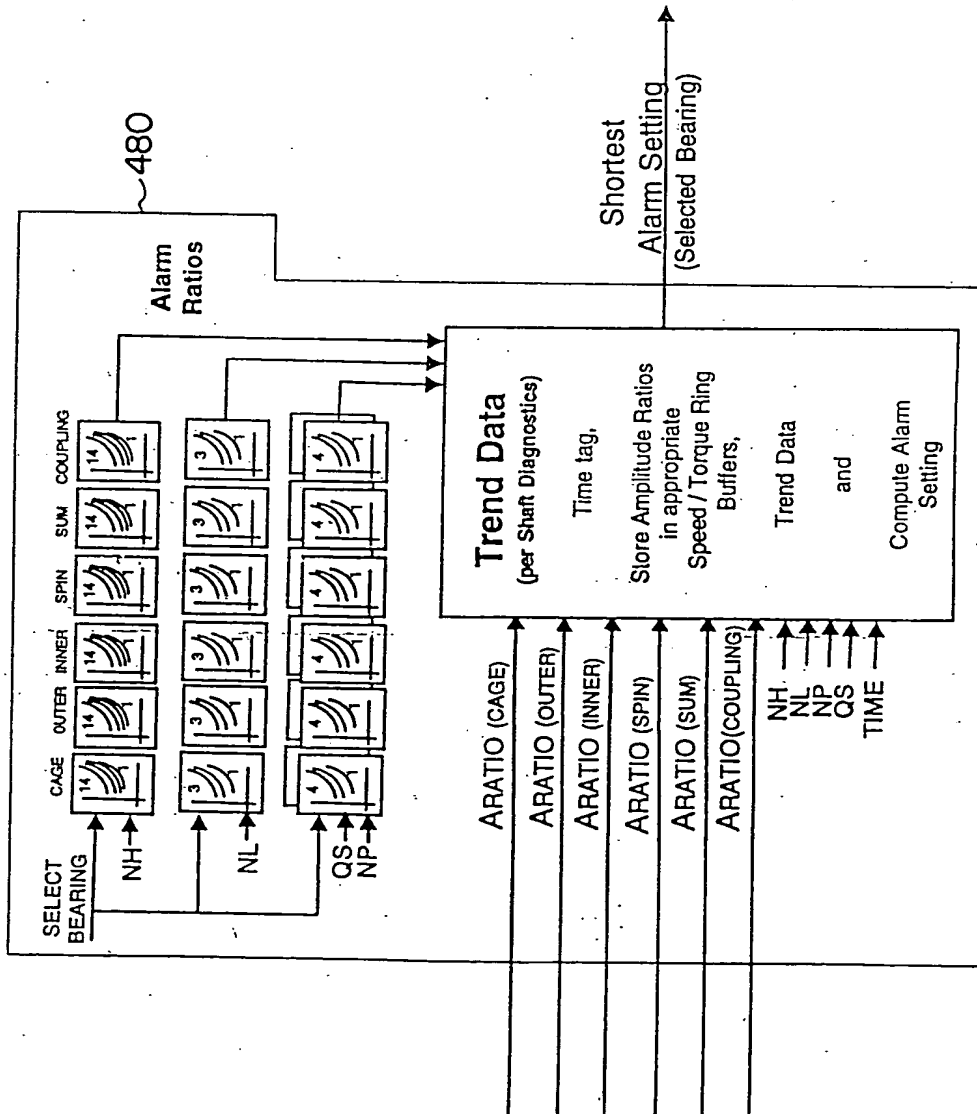
440

442

400

FIG.5B



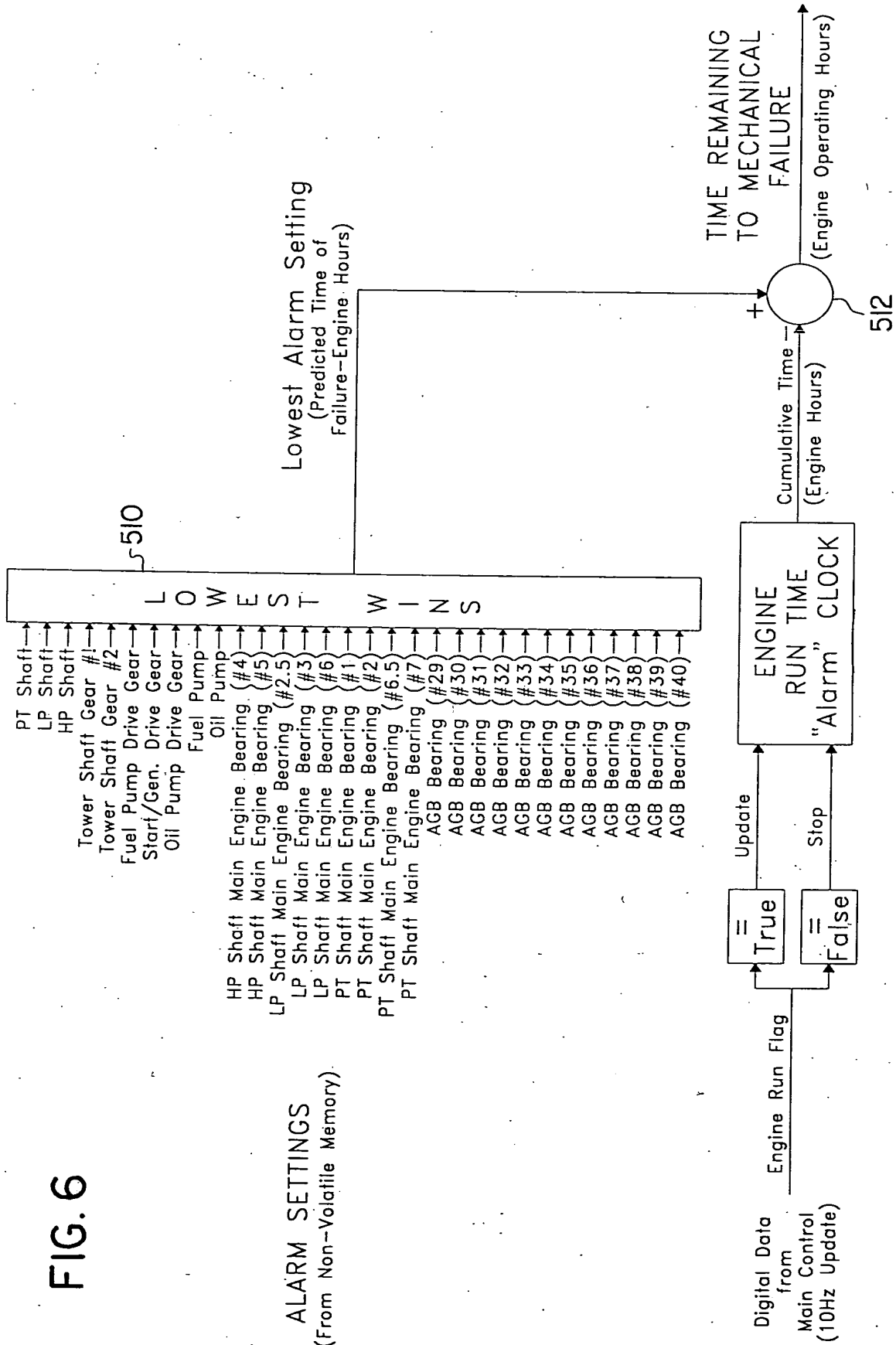


400

FIG. 5D

FIG. 6

ALARM SETTINGS
(From Non-Volatile Memory)



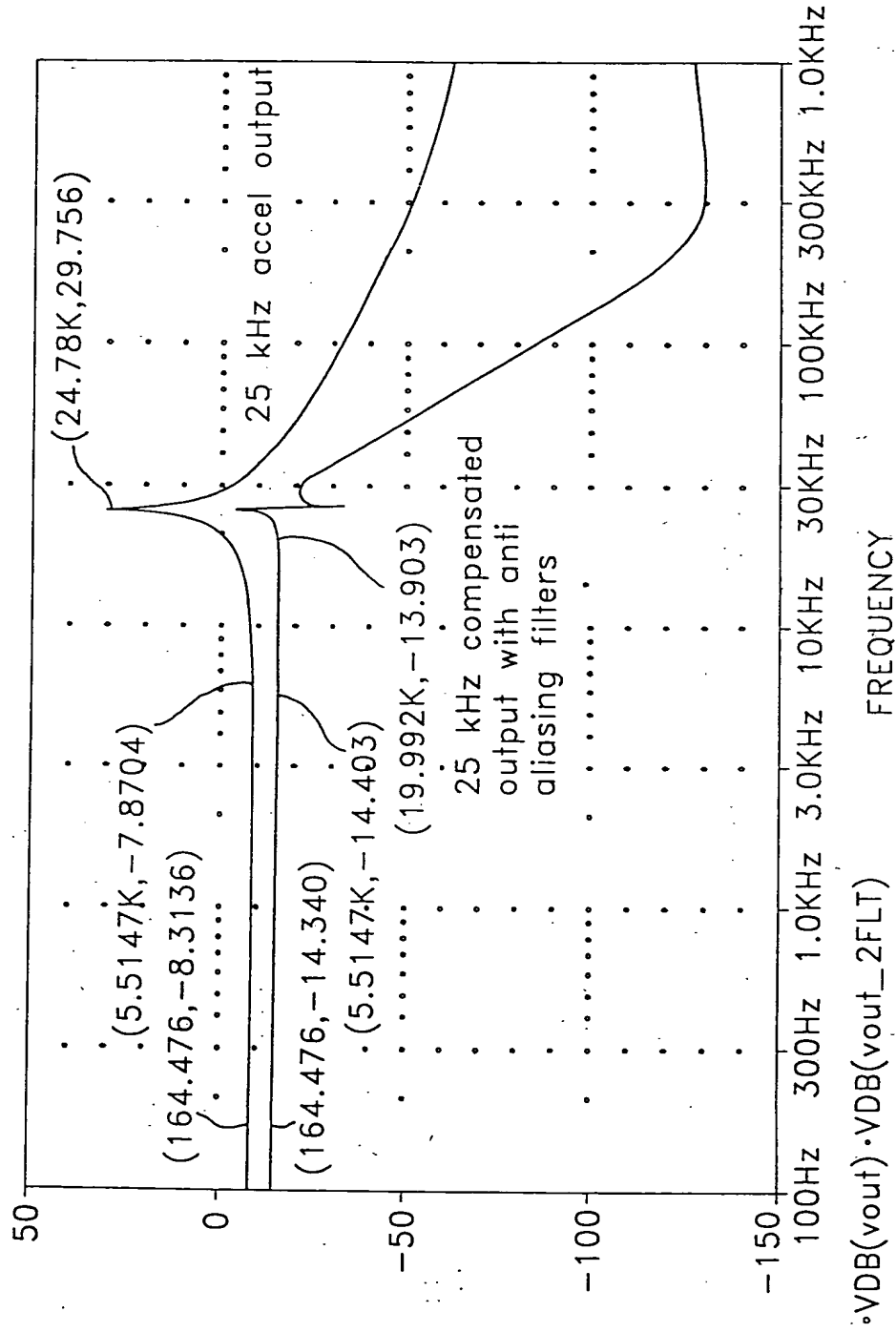


FIG: 7